

File 348:EUROPEAN PATENTS 1978-2004/May W03

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File 349:PCT FULLTEXT 1979-2002/UB=20040520,UT=20040513

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Set	Items	Description
S1	4014	CABLE(3N)(MODEM OR MODULAT?()DEMULAT?)
S2	48676	(MULTIPLE OR SECTION? OR PORTION? OR PART OR PARTS OR SECT- OR?)(3N)(FRAMES OR FRAME)
S3	7213	PATTERN(3N)MATCH?
S4	1880	ADDRESS(3N)SEGMENT?
S5	11391	VARIOUS(3N)LENGTH?
S6	14907	(BIT OR BYTE OR KILOBYTE? OR MEGABYTE?)(3N)(LENGTH? OR SIZ- E)
S7	6650	WORD(3N)(LENGTH? OR SIZE)
S8	25941	(DATA OR VIDEO)(3N)(SIZE OR VOLUME)
S9	15158	MAC OR MEDIUM()ACCESS()CONTROL
S10	67426	IP OR INTENET()PROTOCOL?
S11	8750	PROTOCOL()IDENTIFIER? OR PID
S12	15149	MPEG OR MOVING()PICTURE()EXPERT()GROUP
S13	2340	INDEX(3N)(ENTRY OR ENTRIES)
S14	28	MULTIMEDIA(5N)CABLE()NETWORK()SYSTEM
S15	259	AU=(BERNATH, B? OR GOLDENBERG, M? OR BROOKS, J? OR BERNATH B? OR GOLDENBERG M? OR BROOKS J?)
S16	2	S1(3N)PROGRAMMABLE
S17	20528	(GENERAT? OR CREAT?)(3N)(INDEX OR INDICES OR TABLE?)
S18	56062	IC=H04N?
S19	0	S1(S)S2(S)S3
S20	19	S1(S)S2
S21	12	S20(S)S4:S12
S22	0	S21(S)(S13 OR S17)
S23	2	S21(S)(INDEX OR INDICES OR TABLE?)
S24	2	S23 NOT S16
S25	11	S1(S)S14
S26	0	S25(S)S4
S27	0	S25(S)S5
S28	0	S25(S)S6
S29	0	S25(S)S7
S30	0	S25(S)S8
S31	2	S25(S)S9
S32	2	S31 NOT (S23 OR S16)
S33	4	S15 AND S1
S34	3	S33 NOT (S31 OR S23 OR S16)

16/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01426388

**Method and device for determining the performance of a network**  
**Verfahren und Vorrichtung zur Ermittlung der Leistung eines Netzwerkes**  
**Methode et dispositif pour determiner la performance d'un reseau**

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1204240 A2 020508 (Basic)

APPLICATION (CC, No, Date): EP 2001114012 010608;

PRIORITY (CC, No, Date): US 704888 001101

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-012/24

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200219	319
SPEC A	(English)	200219	4781
Total word count - document A			5100
Total word count - document B			0
Total word count - documents A + B			5100

...SPECIFICATION along with means to program the ASIC with additional  
functionality. It is preferred that a **programmable** Broadcom **cable**  
**modem** ASIC be programmed to include pattern generator 600, addresser  
602, comparator 604, and forward error...

16/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00828356 \*\*Image available\*\*

**CABLE MODEM HAVING A PROGRAMMABLE MEDIA ACCESS CONTROLLER**  
**MODEM CABLE COMPRENANT UNE COMMANDE D'ACCES AU SUPPORT (MAC) PROGRAMMABLE**

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200161935 A1 20010823 (WO 0161935)

Application: WO 2001US5028 20010216 (PCT/WO US0105028)

Priority Application: US 2000183130 20000217; US 2001785035 20010216

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 6533

**CABLE MODEM HAVING A PROGRAMMABLE MEDIA ACCESS CONTROLLER**

Fulltext Availability:

Detailed Description

Claims

English Abstract

A **cable modem** having a **programmable** media access controller (MAC).

A single cable modem device includes all necessary MAC functions. The...

Detailed Description

... and claims priority to U.S. Provisional Patent

Application Serial No. 60/183,130 entitled "**CABLE MODEM HAVING A**

**PROGRAMMABLE MEDIA ACCESS CONTROLLER**," (Attorney Docket No.

00CXT0316DP), filed February 17, 2000. All of such application...

...present invention relates generally to a cable modem; and, more particularly, it relates to a **cable modem** having a **programmable** media access controller.

2. Related Art

In recent years, cable television networks have become more...

...to the drawings.

3

SUMMARY OF THE INVENTION

Briefly, the present invention relates to a **cable modem** having a **programmable** media access controller (MAC). In one embodiment of the invention, a single cable modem device...the peripheral bus and the system bus as determined, at least in part, by the **programmable** MAC.

A **cable modem** device having a **programmable** MAC according to the present

invention provides a software upgrade path to permit support for new versions of standards as they are adapted. Further, the **programmable** nature of the **cable modem** device permits individual manufacturers to differentiate products at the MAC layer without having to modify...

...in conjunction with the following drawings.

Figure I is a block diagram of an exemplary **cable modem** device having a

**programmable** cable media access controller according to the present invention; Figure 2 is a schematic block...power on processes is complete and the programmable MAC is ready for operation.

Thus, a **cable modem** having a **programmable** MAC has been described. The programmable MAC features of the cable modem provide a software...

24/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01313485

Communication system with multicarrier telephony transport

Kommunikationssystem mit Mehrtragertelefonubertagbarkeit

Système de communication de transmission téléphonique a porteuses multiples

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1122650 A2 010808 (Basic)  
EP 1122650 A3 020116

APPLICATION (CC, No, Date): EP 2001201516 970124;

PRIORITY (CC, No, Date): US 10497 960124; US 10506 960124; US 673002 960628  
; US 650408 960520

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 882268 (EP 97903135)

INTERNATIONAL PATENT CLASS: G06F-017/14; H04L-001/00; H04L-001/24;  
H04L-005/02; H04L-005/14; H04L-012/10; H04L-012/12; H04L-012/26;

H04L-012/28; H04L-012/44; H04L-027/26; H04M-007/00; H04L-027/34;  
H04L-025/03

ABSTRACT WORD COUNT: 101

NOTE:

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LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200132	713
SPEC A	(English)	200132	79700
Total word count - document A			80413
Total word count - document B			0
Total word count - documents A + B			80413

...SPECIFICATION each of the plurality of regions to detect a unique identifier for each service unit **modem** to determine which region of the first frequency bandwidth the service unit modem is to...radix core 2600;

Figures 75, 76, 77, 78, 79, 80, 81, 82 together form a **table** showing the order of calculations for a "normal butterfly sub-operation";  
Figures 83, 84, 85, 86, 87, 88, 89, 90 together form a **table** showing the order of calculations for a "transposed butterfly sub-operation";  
Figure 91 is a...

...12 of the system 500 according to the present invention;

Figure 98 illustrates a Personal **Cable** Data **Modem** (PCDM) 540 and a Data Modem Service Module (DMSM) 550;

Figure 99 illustrates in greater...

...580 according to the present invention;

Figure 112 illustrates a PCDM 620 adapted for asymmetrical **data** delivery;

Figure 113 illustrates the head-end configuration for asymmetrical data delivery according to the...

24/3,K/2 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01066614 \*\*Image available\*\*

**METHOD AND SYSTEM FOR MEDIA**

**PROCEDE ET SYSTEME POUR CONTENU MULTIMEDIA**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200396340 A2 20031120 (WO 0396340)

Application: WO 2003US14878 20030510 (PCT/WO US03014878)

Priority Application: US 2002379979 20020510; US 2002378011 20020510; US  
2002218241 20020813; US 2002235293 20020904; US 2002304390 20021125; US  
2002325243 20021218; US 2003364643 20030210; US 2003451231 20030228; US  
2003430843 20030505; US 2003430477 20030505

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT

RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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?

32/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01451001

**Optical cable modem**

**Optisches Kabelmodem**

**Modem de cable optique**

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1241811 A2 020918 (Basic)

APPLICATION (CC, No, Date): EP 2002405169 020306;

PRIORITY (CC, No, Date): CH 0146320 010313

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04B-010/207

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NOTE:

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CLAIMS A	(English)	200238	606
SPEC A	(English)	200238	4046
Total word count - document A			4652
Total word count - document B			0
Total word count - documents A + B			4652

...SPECIFICATION of the DOCSIS 1.X standards according to the version drawn  
up by the MCNS ( **Multimedia Cable Network System** Partners Ltd) and  
IEEE 802.14 consortium, and Table 1B. In particular, the whole process...

...to the physical layer of the OSI stack and consequently forms an  
interface between the **MAC** MCNS and 802.14 layers and the optical fibre  
transmission medium. It is located in the layer identified as the <<  
**cable modem** digital physical layer>> in Table 1B.

With reference to Fig. 1, a CATV network with...

32/3,K/2 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00961467 \*\*Image available\*\*

**BROADBAND COMMUNICATIONS**

**COMMUNICATIONS A LARGE BANDE**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200295584 A2 20021128 (WO 0295584)

Application: WO 2002GB2372 20020522 (PCT/WO GB0202372)

Priority Application: EP 2001401351 20010522; EP 2001401767 20010703; WO  
2002GB1461 20020326

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 42194

Fulltext Availability:

Detailed Description

Detailed Description

... is shown in Figure 18. In a preferred embodiment, the parameters  
displayed may include.

MCNS ( **Multimedia Cable Network System** ) IP addressing

**MAC** address 1802: Set-Top-Box integrated **cable modem** physical  
address

STB IP 1804: Configured Set-Top-Box IP address

DNS Server IP 1806...

...mask

Default gateway IP 1810: Configured default gateway IP address

Quality of service 1812: Current **cable modem** configuration file

(which may be used

to define the Quality of Service allocated to the...

?



34/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01342540  
MODEM CABLE AVEC UN CONTROLEUR D'ACCES AU MEDIA PROGRAMMABLE  
KABELMODEM MIT EINER PROGRAMMIERBAREN MEDIENZUGRIFFSSTEUEREINHEIT  
MODEM CABLE COMPRENANT UNE COMMANDE D'ACCES AU SUPPORT (MAC)  
PROGRAMMABLE

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1256206 A1 021113 (Basic)  
WO 2001061935 010823

APPLICATION (CC, No, Date): EP 2001910824 010216; WO 2001US5028 010216

PRIORITY (CC, No, Date): US 183130 P 000217; US 785035 010216

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LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-012/28

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

MODEM CABLE AVEC UN CONTROLEUR D'ACCES AU MEDIA PROGRAMMABLE  
MODEM CABLE COMPRENANT UNE COMMANDE D'ACCES AU SUPPORT (MAC)  
PROGRAMMABLE

INVENTOR:

BROOKS, John M ...

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BERNATH, Brett A ...

34/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00794619 \*\*Image available\*\*  
METHOD AND APPARATUS FOR UPSTREAM BURST TRANSMISSION SYNCHRONIZATION IN  
CABLE MODEMS  
PROCEDE ET APPAREIL DE SYNCHRONISATION DE TRANSMISSION DE RAFALE EN AMONT  
DANS DES MODEMS PAR CABLE

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):  
Patent: WO 200128147 A2-A3 20010419 (WO 0128147)  
Application: WO 2000US28010 20001009 (PCT/WO US0028010)  
Priority Application: US 99415612 19991009  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 13635

Inventor(s):  
**BERNATH Brett Alan ...**

**... BROOKS John Milford**  
Fulltext Availability:  
Detailed Description

#### English Abstract

...the cable head end is disclosed. The system includes a free running counter within a **cable modem** (CM) or network interface unit (NIU), along with logic to capture the value of this...

...SYNC data arrives, to create a time tag stored in memory. A computer within the **cable modem** or network interface unit has access to the time tags in memory and the contents...

...the value of the local counter becomes equal to a calculated value, thus causing the **cable modem** to initiate its upstream burst transmission precisely at the time commanded by the head end.

#### French Abstract

...de ligne du cable. Ce systeme comprend un compteur sans signaux de synchronisation dans un **modem** (CM) par **cable** ou une unite (NIU) d'interface de reseau, ainsi qu'une logique destinee a capturer...

...arrive, de facon a creer une etiquette temporelle stockee en memoire. Un ordinateur dans le **modem** par **cable** ou l' unite d'interface de reseau peut acceder a ces etiquettes temporelles en memoire...

...valeur du compteur local est egale a une valeur calculee, ce qui fait que le **modem** par **cable** initie la transmission de rafale en amont precisement au moment commande par la tete de...

#### Detailed Description

... to the head end (the upstream path). The individual user requires equipment, such as a **cable modem**, that can both receive from the head end and transmit to it. A cable data...

...capability of both receiving and transmitting data through the use of equipment such as a **Cable Modem** (CM). To assure that each user receives the data they require, a network protocol must...

...user end.

Generally, the head end serves as the network controller, and the user's **cable modem** must be able to respond to commands from the head end. In order to support...

...the network protocol divides the cable network's bandwidth into frequency channels. Each user's **cable modem** then can be tuned to

system time (206) to be referenced to local time (218). The OK...

...and may safely transmit messages upstream.

In a preferred MCNS embodiment, the firmware within the **cable modem** implements a SPLL (Software Phase Locked Loop) to synchronize an accumulator to the master clock...

**34/3,K/3 (Item 2 from file: 349)**

DIALOG(R) File 349:PCT FULLTEXT

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00787044 \*\*Image available\*\*

**BIOMETRIC RECOGNITION UTILIZING UNIQUE ENERGY CHARACTERISTICS OF AN INDIVIDUAL ORGANISM**

**RECONNAISSANCE BIOMETRIQUE UTILISANT LES CARACTERISTIQUES ENERGETIQUES UNIQUES DE L'ORGANISME D'UN INDIVIDU**

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200120538 A2-A3 20010322 (WO 0120538)

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LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

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Patent Applicant/Inventor:

**BROOKS Juliana H J** ...

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Detailed Description

Detailed Description

... communication directly through

mechanisms including but not limited to contact electrode 183, wire, fiber optic **cable**, **modem** 197, and such; and (3) Sensor(s) 333 and reader 174 housed separately, and communicating...

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